

VLODAVETS, V.V.; GAYDAMOVICH, S.Ya.; OBUKHOVA, V.R.

Technique for the detection of influenza virus in the drop phase
of aerosols. Report No. 2: Effectiveness of detecting the
influenza virus with Rechmenskii's bacterial recovery apparatus,
Vershigora's barbotage apparatus, and Shafir's aerocentrifuge.
Vop. virus. 5 no. 6:670-675 N-D '60. (MIRA 14:4)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR i
Institut obshchey i kommunal'noy gigiyeny imeni A.N. Sysina
AMN SSSR, Moskva.

(INFLUENZA) (AEROSOLS)

GAYDAMOVICH, S.ya.; OBUKHOVA, V.R.; MEL'NIKOVA, Ye.E.

Obtaining of antigen for the complement fixation reaction
of tick-borne and Japanese encephalitis viruses from tissue
cultures. Nauch. inform. Otd. nauch. med. inform. AMN SSSR
no.1:31-33 '61
(MIRA 16:11)

1. Institut virusologii im. D.I.Ivanovskogo (direktor - prof.
P.N.Kosyakov) AMN SSSR, Moskva.

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GAYDAMOVICH, S.Ya.; OBUKHOVA, V.R.

Cultivation of the virus of Japanese encephalitis in a culture
of kidney epithelium of sheep embryo. Vop. virus. 6 no.5:557-
562 8-0 '61. (MLIA 15:1)

1. Laboratoriya diagnostiki i indikatsii virusov Instituta virusologii
imeni D.I.Ivanovskogo AMN SSSR i kafedra virusologii TSentral'nogo
instituta usovershenstvovaniya vrachey, Moskva.
(ENCEPHALITIS)

GALDAMOVICH, S.Ya.; OBUKHOVA, V.R.; MELNIKOVA, E.E.

Tick-borne and Japanese B encephalitis virus complement-fixing
antigens from tissue culture. Acta virol. 6 no.3:231-238 My '62.

I. D.I. Ivanovsky Institute of Virology, U.S.S.R. Academy of Medical
Sciences, Moscow.
(ENCEPHALITIS JAPANESE B virol) (TISSUE CULTURE)
(COMPLEMENT)

OBUKHOVA, V.R.; GAYDAMOVICH, S.Ya.

Cytopathic activity of various strains of Japanese encephalitis virus
in cultures of the kidney epithelium of the sheep embryo. Vop. virus.
(MIRA 15:5)
7 no.2:201-206 Mr-Ap '62.

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moscow.
(ENCEPHALITIS) (TISSUE CULTURE)

GAYDAMOVICH, S.Ya.; OBUKHOVA, V.R.

Conditions for isolating the complement-fixing antigen in tissue cultures infected with the viruses of Japanese and tick-borne encephalitis. Vop.virus 7 no.4:42-47 Jl-Ag '62. (MIRA 15:8)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(COMPLEMENTS (IMMUNITY)) (ENCEPHALITIS) (TISSUE CULTURE)

UZUNOV, G.; SHUBALZE A.K.; BOGDANOV, S.; ANDONOV, P.
GEORGIEV, I.; GOREKOV, V.

Avtorsko izdeljevanje na podlagi rezultatov raziskovanj v
en zvezdarni in planetarijski observatoriji v Belgradu (voditelj
Grupa posredovanja in raziskovanja v Belgradu: A.N. Andonov);
na naukite (fizikomatematične, tehnologe); Katedra prenosov podatkov
Vsestilinske merilne sile (voditelj: S.B. Bojkov);
Laboratoriya za optičke instrumente (voditelj: V. Gorekov);
Institut "D.I.Ivanovski", Makedonija (voditelj: n.k. Stojanov);
i Laboratoriya za zvezdarni in planetarni NEM, Srbija (voditelj
P.Andonov).

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UZUNOV, G.; SHUBLADZE, A.K.; BOZHINOV, S.; GAYDAMOVICH, S.Ya.;
ANDONOV, P.; GEORGIYEV, I.; OBUKHOVA, V.R.

Etiology of progressive hyperkinetic encephalitis in Bulgaria.
Zhur. nevr. i psikh. 64 no.3:346-350 '64. (MIRA 17:5)

1. Nevrologicheskaya i psikiatricheskaya klinika Vysshego
meditsinskogo instituta (Sofiya), Laboratoriya srovnitel'noy
virusologii Instituta virusologii im. D.I. Ivanovskogo AMN
SSSR (Moskva) i Laboratoriya virusnykh entsefalitov Nauchno-
issledovatel'skogo instituta po epidemiologii i mikrobiologii
(Sofiya).

L 8185-66 EWA(j)/EWA(b)2 /EWT(1) JK

ACC NR. AP5027483

SOURCE CODE: UR/0219/65/060/010/0107/0112

AUTHOR: Blyumkin, V. N.; Gaydamovich, S. Ya.; Obukhova, V. R.;
Sekretta, L. Yu.ORG: Virusology Institute im. D. I. Ivanovskiy AMN SSSR, Moscow
(Institut virusologii AMN SSSR)TITLE: Cytological changes in RES cells infected by tick-borne
encephalitis virusSOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no.
10, 1965, 107-112TOPIC TAGS: medical experiment, encephalitis, cell physiology,
pathogenesis, nucleic acid, histologyABSTRACT: RES (Ren Embryonis Suis) cells obtained from pig embryo
kidneys were infected with different concentrations (10^{-1} to 10^{-5}) of
tick-borne encephalitis virus (strain Ix-10) to study the cytopathologi-
cal changes of cells during the early stages of infection. The RES
cell cultures were grown on glass slides in flasks containing 2 ml of
No. 199 medium and 10% ox blood serum and were incubated for periods of
20 to 48 hrs. The infected cultures were fixed according to A. L.
Shabadash's method for 2 to 24 hrs and stained by various histological

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UDC: 576.858.25.095.383

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ACC NR: AP5027483

methods including Brash's pyronine method for identifying RNA and Feigl's method for identifying DNA. Typical cytopathological changes (karyopyknosis, karyorrhexis, plasmorrhesis, and cytolysis) destroying both the cytoplasm and nuclei of cells developed in the infected RES cell cultures in 30 to 48 hrs. These changes appeared earlier (20 to 26 hrs) in RES cell cultures infected with higher concentrations (10^{-1} to 10^{-2}) of virus. In control experiments, the RES cell cultures inoculated with a mixture of the virus and a specific immune serum did not develop any cytopathological changes. The RES cells are characterized by cytological, cytochemical, and karyological stability and high sensitivity to tick-borne encephalitis virus and are strongly recommended for use in laboratory studies. Orig. art. has: 3 figures.

SUB CODE: LS/ SUBM DATE: 14 May 64/ ORIG REF: O11/ OTH REF: O11

jw
card 2/2

OPUKHOVA, V. S.

OPUKHOVA, V. S.: "Investigation of the problem of designing sheet piles." Kiev, 1955. Min Higher Education Ukrainian SSR. Kiev Construction Engineering Inst, Chair of Descriptive Geometry and Graphics. (Dissertation for the Degree of Candidate of Technical Sciences)

SC: Knizhnaya Letopis' No. 47, 10 November 1955. Moscow.

30V/2-58-12-37/4*

AUTHORS: Obukhova, V.S., Candidate of Technical Sciences; Dubenko,
V.A., Assistant

TITLE: A Manual on Descriptive Geometry for Correspondence-Students
(Rukovodstvo po nachertatel'noy geometrii dlya srochnikov)

PERIODICAL: Vestnik vysshey shkoly, 1981, Nr 12, pp 86-88 (USSR)

ABSTRACT: The article is a review of the book "Descriptive Geometry" by N.N. Pashenichnyy, M.I. Kepina and L.I. Marchenko, published by "Sovetskaya nauka". There is 1 Soviet reference.

ASSOCIATION: Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (Ukrainian Academy of Agricultural Sciences)

Card 1/1

OBUKHOVSKIY, Ya.M.; PYZHOV, Yu.V.; SHEYKHET, A.M.

Studying the expansion pressure of coals in connection with the
preparation of coal charges for coking. Koks i khim. no.9:
14-17 '63. (MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Coke)

LUTSKIY, A.Ye.; YAGUPOL'SKIY, L.M.; OBUKHOVA, Ye.M.

Participation of vacant d-orbitals of sulfur in a conjugation system. Part 1: Dipole moments of aryltrifluoromethyl sulfides, sulfoxides, sulfones, and aryltrifluoromethyl ethers. Zhur. ob. khim. 34 no.8:2641-2647 Ag '64. (MIKA 17:9)

1. Khar'kovskiy politekhnicheskiy institut im. V.I. Lenina i Institut organicheskoy khimii AN UkrSSR.

OBUKHOVA, YE. M.

23014 O kinetike rastvorenija polimorfivkh veshchestv. Trudy khar'k. Khim. -
Tekhnol. In-ta Im. Kirava, vyp. 7, 1949, c. 31-36. -- Bibliogr: 5 nazv.

SO: LETOPIS' NO. 31, 1949

OBUKHOVA, Ye. M. Cand Chem Sci -- (diss) "Molecular constants and
certain physical properties of liquid binary mixtures of nonelectrolytes."
Khar'kov, 1957. 12 pp (Min of Higher Education UkrSSR. Khar'kov Polytechnic
Inst im V. I. Lenin), 100 copies (KL, 11-58, 113)

OBUKHOVA, E. M.

Distr: 4E4

Molecular constants and macrophysical properties of mixtures. I. Viscosity of liquid binary mixtures? A. B. Lutskii and E. M. Obukhova (V. I. Lenin Polytech. Inst., Kharkov). Zhur. fiz. khim. 31, 1093-1097 (1957).—At different temps. the viscosity was dectd. of binary mixts. having various concns. of C_6H_6 , $CHCl_3$, or Me_2CO as one component and as the 2nd component a member of series of isologous, homologous, isoperiodic compds., substituted isocompds., or metamers of $AcOEt$ and $AcOMe$, and iso-periodic compds. of $C_6H_5COCH_3$ and $PhNCO$. The viscosity of the 2-component liquids, η_{12} , and changes in viscosity with changes in concn. of the components, $\Delta\eta_{12}$, were calcd. by formulas derived and compared with exptl. data in the literature. The relations reflect the total effects of the properties of the mols. on the viscosity of the mixt. and are proposed as criteria for the compn. of the micromols. in the mixt.

W. M. Sternberg

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11

OBUKHOV, Ye. M.
LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.

Molecular constants and macrophysical properties of mixtures.
Part 2: The density of liquid binary mixtures [with summary in
English]. Zhur.fiz.khim. 31 no.9:1964-1975 S '57. (MIRA 11:1)

1. Politekhnicheskiy institut im. V.I.Lenina, Khar'kov.
(Liquids--Density) (Mixtures)

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.; SIDOROV, I.A.

Association and concentration dependence of properties of organic
binary mixtures. Zhur. ob. khim. 28 no.9:2386-2395 S '58.
(MIRA 11:11)

1. Khar'kovskiy politekhnicheskiy institut.
(Systems (Chemistry))

76-32-3-38/43

AUTHORS: Lutskiy, A. Ya., Obukhova, Ye. M., Petrenko, B. S.

TITLE: The Heat of Mixing and the Dipole Moment of Component
Molecules (Templota smeshaniya i dipol'nyy moment molekul
komponentov)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr. 3,
pp. 720-721 (USSR)

ABSTRACT: According to the statistical theory of nonelectrolyte mixtures
a certain connection between the mixing temperature ΔH_{mix} and
the difference of properties of the molecules of the components
is assumed. Different possibilities are given for the various
differences of properties. Macrophysical properties of the bodies
(such as the molar volume and the boiling point), rather than
corresponding properties of the molecules, are used. Determinations
of the mixing temperature of binary mixtures were performed at
20°C, benzene serving as one component, and substances from the
series of isoperiodic compounds of the composition C_6H_x , whose

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76-32-3-38/43

The Heat of Mixing and the Dipole Moment of Compound Molecules

molecules except for the dipole moment, possessed similar properties, were used as the second component. The measuring method was already described earlier and the obtained results are given in a table. It is noticed that, for still unknown reasons the mixing temperature of a number of compounds increases with the dipole moment, while it drops in others. In this connection a sharp insufficiency of the linear form is observed in compounds with a content of hydroxyl groups, which show a sharp increase in the heat of mixing. This is explained by the destruction of complexes formed by hydrogen bonds. There are 1 figure, 1 table, and 12 references, 2 of which are Soviet.

ASSOCIATION:
Khar'kovskiy politekhnicheskiy institut im. V.I. Lenina
(Khar'kov Polytechnical Institute imeni V.I. Lenin)

SUBMITTED:
March 3, 1957

Card 2/2

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.

Change in the properties of substances in the different series of
chemical compounds. Part 3: Series of isoperiodic compounds. Zhur.
ob.khim. 31 no.5:1590-1596 My '61. (MIRA 14:5)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina.
(Periodic law) (Molecules--Dipole moments)

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.

Change in the properties of substances in the different series of
chemical compounds. Part 4: Series of substituted compounds. Zhur.
ob.khim. 31 no.5:1596-1601 My '61. (MIRA 14:4)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina.
(Periodic Law) (Molecules—Dipole moments)

LUTSKII, A. Ye.; OBUKHOVA, Ye.M.

Association and properties of binary mixtures of organic
compounds as a function of concentration. Part 3: Mixtures
of isoperiodic compounds. Zhur. ob. khim. 31 no.8:2692-2702
(MIRA 14:8)
Ag '61.

(Systems (Chemistry)--Dipole moments)

LUTSKIY, A. Ye.; OBUKHOVA, Ye.M.

Association and properties of binary mixtures of organic compounds
as a function of concentration. Part 4: Compounds with similar
dipole moments. Zhur. ob. khim. 31 no.8:2702-2708 Ag '61.
(MIRA 14:8)

(Systems (Chemistry)--Dipole moments)

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.

Changes in the properties of substances in various series of
chemical compounds. Part 1: Homologous series of organic
compounds. Zhur.fiz.khim. 35 no.9:1951-1959 '61. (MIRA 14:10)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina.
(Homologous series)

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.

Changes in the properties of substances in various series of
chemical compounds. Part 2: Series of isogroup compounds.
Zhur.fiz.khim. 35 no.9:1960-1965 '61. (MIRA 14:10)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina.
(Molecules)
(Chemistry, Physical and theoretical)

LUTSKIY, A.Ye.; SOLDATOVA, A.F.; OBUKHOVA, Ye.M.

Dipole moments of thymol and eugenols and their ethers and esters.
Zhur.ob.khim. 33 no.7:2328-2331 Jl '63. (MIRA 16:8)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina.
(Thymol—Dipole moments) (Eugenol—Dipole moments)

LUTSKIY, A.Ye; MALKES, L.Ya.; OBUKHOVA, Ye.M.; TIMCHENKO, A.I.

Dipole moments of molecules and intramolecular reactions
between functional groups. Part 1. Zhur. fiz. khim. 37
no.5:1076-1082 My '63. (MIRA 17:1)

1. Politekhnicheskij institut imeni V.I. Lenina i Vsesoyuznyy
nauchno-issledovatel'skiy institut monokristallov.

J 12201-63
ACCESSION NR: AP3002928

EPF(c)/EMT(m)/BDS ESD-3

Pr-4 BM/WW/RH
5/0076/63/037/006/1270/1274

AUTHOR: Lutskiy, A. Ye.; Obukhova, Ye. M.; Kondratenko, B. P.

TITLE: Molecular dipole moments and intramolecular interaction of functional groups. 2. Disubstituted benzenes with electron-donating functional groups.

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 6, 1963, 1270-1274

TOPIC TAGS: molecular dipole moment, intramolecular interaction, disubstituted benzene, electron-donating functional group, monomethylether, dihydroxybenzene, acetoxybenzene, aminophenol

ABSTRACT: The results of dipole moment measurements of O-, m-, and p-diacetoxybenzenes, monomethylethers of dihydroxybenzenes, acetoxybenzenes, aminophenols, N-acetylanisidines, etc. are presented, and the influence of various factors on the dipole moments has been discussed.
Orig. art. has: 2 tables.

ASSOCIATION: Politekhnicheskiy institut (Polytechnic Institute)

SUBMITTED: 03 May 62

DATE ACQ: 16 Jul 63

ENCL: 00

SUB CODES: 00

NO REF Sov: 006

OTHER: 008

Card 1/1

65

RUDNEVSKIY, N.K.; MATYUNIN, A.I.; OBUKHOVA, Ye.S.

Investigation of copper-nickel alloy components entering into the
gas cloud surrounding the arc. Izv. AN SSSR. Ser. fiz. 19 no.1:
125-126 Ja-F '55. (MIRA 8:9)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosu-
darstvennom universitete.
(Spectrum analysis) (Spectrometer)

Obukhova, Ye S

207/100

PLATE I BOOK EXPLOITATION

207/7

Nov. University
Material i Tsvetotomogorovskim po spektroskopii, 1956.
Seriya: Akademya spektroskopii (Materials of the 10th All-Union Conference on Spectroscopy, 1956, Vol. 2). Atomic Spectroscopy
and its Application to Metallurgy, Univ., 1956. 568 p. (Series: Its Application to Metallurgy, 1956, Vol. 1(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademya nauk SSSR. Minskaya po spektroskopii.

Editorial Board: G.I. Landaev, Academician, (Resp. Ed.);
B.B. Repovt, Doctor of Physical and Mathematical Sciences;
L.D. Pobedilov, Doctor of Physical and Mathematical Sciences;
V.A. Pashinkin, Doctor of Physical and Mathematical Sciences;
V.G. Boritskii, Candidate of Technical Sciences; I.K. Klimovskaya,
Candidate of Physical and Technical Sciences; V.D. Miliyanchuk,
Candidate of Physical and Mathematical Sciences; A.Ye.
(Sokolov), Doctor of Physical and Mathematical Sciences;
Gliberman, Doctor of Physical and Mathematical Sciences;
Sh. I. A.I. Gasar, Tech. Ed.; T.V. Jarutskiy.

PURPOSE: This book is intended for scientists and researchers in

the field of spectroscopy, as well as for technical personnel

using spectrum analysis in various industries.

CONTENTS: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The extensive bibliography of Soviet spectroscopy, spectra of rare earths, studies cover many phases of spectroscopy, methods for controlling electromagnetic radiation, physicochemical methods for gas discharge, uranium production, physics and technology of metal vapors, optics and spectroscopy, abnormal dispersion in spectra of rare spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and atlases of spectral lines, spark spectrography analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermodynamics in metallurgy, and principles and practice of spectrometrical analysis.

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207/100

Materials of the 10th All-Union Conference (Cont.)

Sokolov, Ye.P., Investigation of the Relation of the Composition of the Sample to the Emission Cloud Composition in Spectra Analysis 276

Rybachuk, Ye.P., Ye.J. Kotryukova, A.I. Chernenko, and V.D. Malyukin, Measuring the Vaporization Rate of Elements and Their Compounds in an Electric Arc 285

Sokolov, G.Ye., Investigation of the Effect of Electrode Cooling Conditions on Spectral Line Intensity 289

Sudarevsky, N.K., and Ye.J. Obukhova, Spectral Characteristics of the Entry of Binary Alloys into the Gas Cloud of an A-C Arc 292

Sudarevsky, N.K., and A.I. Dritskiy, Spectral Characteristics of the Entry of a Copper-Zinc Alloy into a Spark 296

Card 17/31

SOV/137-59-3-7316

Translation from: Referativnyy zhurnal Metallurgiya, 1959, Nr 3 p 337 (USSR)

AUTHORS: Rudnevskiy, N K . Obukhova, Ye S

TITLE: On the Dependence of the Concentration of Nickel in the Gas Cloud of an A-C Arc on the Concentration of Nickel in a Copper-nickel Alloy
(O zavisimosti kontsentratsii nikelya v gazovom oblake dugi pere-mennogo toka ot kontsentratsii nikelya v mednonikelevom splave)

PERIODICAL: Tr. po khimii i khim. tekhnol., 1958, Nr 1, pp 97-98

ABSTRACT: The mean concentration of Ni in the arc gas cloud was evaluated by collecting the Cu-Ni-alloy material passing into the arc into a small glass vessel. A PS-39 generator with a 5-amp current intensity was used. Alloys containing 0-79% Ni were investigated. The amount of Cu and Ni was first determined by the electrolytic method in the fused thin surface layer of the electrodes (E) which is readily separated from the E after roasting for 85 min. It was established that the concentration of Ni is higher in the surface layer of the E than in the alloy. The phenomenon of the enrichment with Cu of the gas cloud of the arc must be attributed to the greater volatility of Cu as compared to that of Ni.

M. N

Card 1/1

USCOMM-DC-61.025

SOV/58-59-8-19174

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 303 (USSR)

AUTHORS: Rudnevskiy, N.K., Obukhova, Ye.S.

TITLE: Some Methods of Determining the Amount of Alloy Material Entering
Into the Interelectrode Gap of an Alternating-Current Arc

PERIODICAL: Tr. po khimii i khim. tekhnol., 1958, Nr 2, pp 330-333

ABSTRACT: The authors assume that there exists a proportionality between the total amount of material that has vaporized from the electrodes (VM) and the amount of material that has entered into the arc cloud. This assumption permits the utilization of VM measurements in solving a number of problems in the domain of the spectral analysis of alloys. In order to estimate the VM, it is suggested that one determine the amount and composition of the deposit on the walls of the closed vessel in which the arc burns, or in the layer of wadding through which the air containing the aerosols of the arc layer of wadding through which the air containing the aerosols of the arc burning products is sucked off. It is demonstrated that the weight of the reguli that are formed during arc burning amounts to only 1 to 10% of the total weight loss of the electrode material. Instruments for collecting the arc burning products are described. The bibliography contains 11 titles.

A.B. Shayevich

Card 1/1

BUDNEVSKIY, N.K.; OBUKHOVA, Ye.S.

Features of the entry of the substance of some binary alloys
into the gas cloud of an a.c. arc. Fiz.sbor. no.4:292-295
'58. (MIRA 12:5)

1. Nauchno-issledovatel'skiy institut khimii Gor'kovskogo
gosudarstvennogo universiteta imeni N.I.Lobachevskogo.
(Electric arc) (Alloys--Spectra)

24(3), 24(7)

SOV/48-23-9-7/57

AUTHORS: Rudnevskiy, N. K., Obukhova, Ye. S.

TITLE: The Investigation of the Entry of the Substance of Lead Brass
Into an Alternating-current Arc

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,
Vol 23, Nr 9, pp 1067-1069 (USSR)

ABSTRACT: In the analysis of lead brass zinc exercises a considerable influence upon the intensity of the lead lines. It has already previously been shown (Ref 1) that concentration variations of "third" elements lead to irregularities of the entry of substances of the alloys under investigation. The here investigated lead brasses contained 9 ~ 40% zinc and 0.4 - 2.2% lead. The source used was an arc; the amperage was 4 a, and the spark gap was 1.9 mm. The results obtained showed a dependence of the entry velocity of the substance on the zinc and lead concentration in the alloys. With a variation of zinc-concentration from 9 to 40% and a lead content of 1.7% the entry velocity increases four-fold. With a variation of lead-concentration from 0.4 to 2.2% and a zinc content of 40%, the entry velocity in the gas cloud increases double its amount. The entry of lead into the gas cloud depends not

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SOV/48-23-9-7/57

The Investigation of the Entry of the Substance of Lead Brass Into an
Alternating-current Arc

only on the lead concentration in the alloy but also on that of the zinc. Further, an increase of the lead content in the alloy leads to a decrease of the zinc concentration in the gas cloud. A variation of the zinc- and lead content in brass thus leads to irregularities of the entry of substance into the gas cloud, which, in turn, leads to a variation of the components in the gas cloud. These results are shown by the diagram in figure 2. In conclusion, the degree of the reabsorption of copper lines depending upon the ratio of the concentration of the lead- and copper-atoms in the gas cloud is investigated and shown by the diagram in figure 3. There are 3 figures and 2 Soviet references.

Card 2/2

OBUKHOVA, YE S
~~SECRET//COMINT~~

/05

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

Materials of the Third Ural Conference (Cont.)	SOV/6181
Buravlev, Yu. M., M. A. Perepelkina, G. P. Neuymina, and G. I. Maramygina. Investigation of the effect of structure on the results of spectral analyses of cast iron	62
Bobrov, V. A., Ye. N. Chernoguz, and T. N. Yaroslavova. Application of "fractional exposure" method for spectral analysis of alloy cast irons and aluminum alloys	66
Matyugina, I. V. Spectral analysis of silicon brasses by the calculated graph method	67
Obukhova, Ye. S., and N. K. Rudnevskiy. Application of electrotransfer in plotting calibration graphs according to a single standard in the spectral analysis of alloys	68
Taganov, K. I. Spectroscopic investigation of features of contact-electrospark erosion of metals and alloys	70

Card 6/15

RUDNEVSKIY, N.K.; GOLITSYN, G.I.; OBUKHOVA, Ye.S.; BARINOV, V.M.

Studying the supply of matter from certain copper-based alloys
into the discharge of a rectified a.c. arc. Izv. AN SSSR. Ser.
fiz. 26 no.7:881-884 J1 '62. (MIRA 15:8)
(Electric arc)

S/048/63/027/001/003/043
B165/B180

AUTHORS: Obukhova, Ye. S., Kudnevskiy, N. K., and Taganov, K. I.

TITLE: Electric discharge sampling for the calibration in the spectral analysis of metals and alloys

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1965, 6-7

TEXT: In the intensity of a spectral line depends on c the concentration of the component to be determined and on the mass consumed in the light source, which is itself dependent on the discharge current, electrode distance d, and transfer time. In intensity measurements of the PI 2535.6 λ line from binary Cu-P alloys with 0.67 - 1.33% P, and i the current in the transfer arc discharge from 2 - 8a, log I was found to be a linear function of $\log c I^P$ with $P = 1.3$. For constant i, $\log I$ was a linear function of $\log c d^P$ with negative P. In similar experiments with a Cu - Ni alloy S, the optical density of the Ni I 3050.8 λ line was measured for Ni concentrations of 7.43 - 29.14% and varying T, the
Card 1/2

S/048/63/027/001/J03/043

3163/B180

Electric discharge sampling for the ...

transfer time in a spark discharge. It was found that S is a linear function of $c T^K$ (value of K not stated). This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961. There are 4 figures.

Card 2/2

OBUKHOVA, Ye.S.; RUDNEVSKIY, N.K.

Particularities of the feeding of substance of Al-Zn alloys into the
alternating current arc discharge and the concentration dependence of
the intensity of aluminum and zinc lines. Trudy po khim.i khim.tekh.
(MIRA 17:12)
no.1:43-46 '63.

SAVANNAH, GEORGIA, USA; ATLANTA, GA.; NEW YORK, NY.

Two days ago, I was driving down the highway with my wife in our car park
in Atlanta, Georgia. I parked in front of a Wal-Mart Supercenter. (I-75 at
127 - 128) (14)

• A man who I do not know personally approached us and asked if we wanted
to buy some lottery tickets.

ACC NR: AP7003155

SOURCE CODE: UR/0368/66/005/006/0793/0794

AUTHOR: Obukhova, Ye., S.; Pikhalev, A. I.; Rudnevskiy, N. K.

ORG: none

TITLE: Spectral investigations of a rubidium light source

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 793-794

TOPIC TAGS: rubidium, optic pumping, electric lamp, signal to noise ratio, optic spectrum, hyperfine structure, temperature dependence, pressure effect

ABSTRACT: To obtain an optical pumping source suitable for use in precision magnetometers and in frequency standards, the authors investigated the spectra of electrodeless rubidium lamps similar to those described by W. E. Bell et al. (Rev. Sci. Instrum. v. 32, no. 6, 688, 1961). Rb⁸⁷ was used as the working gas and Kr and Ar as buffers. The exciting-generator frequency was 90 - 100 MHz. The tests consisted of determining the fine-structure components of the various lines present in the spectrum of the lamp (besides the main 7800 and 7947 Å doublet), which affect adversely the signal/noise ratio, the dependence of the line intensities on the voltage applied to the lamp, the effect of different argon and krypton pressures, and the variation of the half-width and intensity of the hyperfine components of the main doublet as functions of the voltage and temperature. The latter tests have shown that a change of voltage from 90 to 150 v (corresponding to an increase in power from 3 to 8 watts) changes the line width by not more than a factor of 2, while the line intensity is

Card 1/2

UDC: 535.89

ACC NR: AP7003155

increased by a factor 4 - 5. When the line width more than doubles, self reversal sets in, and this reduces the usefulness of the lamp. The higher the voltage, the lower the temperature at which self-reversal sets in (it ranges from 110 to 60C as the voltage is changed from 100 to 150 v). The lamp becomes unstable at voltages above 190. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 15Nov65/ OTH REF: 002/ ATD PRESS: 5113

Card 2/2

BAKHRAKH, Ye.E.; DAVANKOV, A.B.; MARTENS, L.A.; LAUFER, V.M.; SOKOLOVA, N.M.;
OBUKHOVA, Z.A.; FILIPPOVA, N.Ye.

Cultivation of the plague microbe on media of acid casein hydrolysate
demineralized using an ion-exchange resin. Zhur.mikrobiol., epid. i
immun. 33 no.3:51-55 Mr '62.
(MIRA 15:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
mikrobiologii i epidemiologii Yugo-Vostoka SSSR "Mikrob".
(PASTEURELLA PESTIS) (CASEIN) (ION EXCHANGE RESINS)

OBURHOVA, Z. D., ZAKHAR'Y V, N. I. and RYABCHIKOV, A. S.

"The Ensilage of Fodders in Collapsible, Portable, and Wall-less Towers", Sov Zootekhnika, No. 7, p. 54-66, 1950.

USSR/Farm Animals - General Problems.

Q-1

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30890

Author : Zakhar'yev N.I., Obukhova Z.D., Andronov A.S.

Inst : -

Title : The Nutritiousness of Indian Corn under Different Timings and Ways of Harvesting.
(Pitatal'nost' kukuruzy pri razlichnykh srokakh i sposobakh uborki).

Orig Pub : Viol. nauchno-tekhn. inform. Kirg. n.-i. in-t zhivotno-vodstva i vet., 1956, No 1-2, 37-42.

Abstract : The amount of feed units in the crop of stems with leaves reaches its maximum at the stage of milky-waxy ripeness, and that of protein, at the stage of the formation of styles ("silks"). The aggregate crop of feed units in the whole plant (stems, leaves and corncoils) continues to grow until full ripeness is attained (it then constitutes 151.⁴% of the crop of milky ripeness).

Card 1/1

- 5 -

ZAKHAR'IEV, N.I.; OBUKHOVA, Z.D.; CHESHEV, K.S.; YAKUSHENKO, Ye.S.

Composition and food value of grasses in main types of mountain
pastures and hay of sown hayfields of Sutamyr. Izv. AN Kir. SSR
no.3:43-101 '56. (MLBA 10:4)
(Sutamyr--Feeding and feeding stuffs)

ZAKHAR'YEV, N.I.; YAKUSHENKO, Ye.S.; OBUKHOVA, Z.D.; KOTYSHEVA, N.G.

Composition and nutritive value of grasses of the Fergana
Range meadow steppes abounding in the barley *Hordeum bulbosum*.
Izv.AN Kir.SSR no.6:97-111 '58. (MIRA 11:12)
(Fergana Range---Grasses)

ZAKHAR'EV, N.I., prof.; KOVLEGA, L.V.; KULYSEVA, N.I.; O.CHENKA,
Z.D.; YAKUSHENKO, Ye.S.

[Feeds in the Kirgiz S.S.R.; their composition and nutritive
value] Korma Kirgizskoi SSR. "Sostav i pitatel'nost". [By]
N.I.Zakhar'ev i dr. Frunze: Izd-vo AN Kirg.SSR. Vol.1.[Chemical
composition and feeding value of pastures in the mountain pastures
and hayfields of Fergana, Alay, and Saryyr] khimicheskii so-
stav i pitatel'nost' travy gornykh partbisher i senokosov
Fergany, Alai i Saryrya. №64. 341 p. (V.L.A. 17:2)

OBUKHOVA, Z.I.

Injurious mollusk fauna of gardens and vegetable plots in
Andizhan Province. Zool. zhur. 40 no. 1:132 Ja '61.
(MIFI. 14:2)

1. Department of General Biology, Andizhan State Medical Institute.
(Andizhan Province--Mollusks) (Garden pests)

OBUKHOVA-SHARPOVA, O.Ya.

Transition from perception to purposive observation under the
influence of special instruction. Vop.psikhол. no.6:89-101 N.D
'62. (MIRA 16:2)

1. Pedagogicheskiy institut imeni Lenina, Moskva.
(Perception) (Child study)

- BERSENEV, V.S.; Prinimali uchastiye: ZINEVICH, V.D.; MOROZOV, V.I.;
MIKHACHEV, V.S.; KAPRALOV, Ye.P.; KOLCHANOV, V.D.; BOGDANOV, A.V.;
OBUKHOVICH, I.I.; OSTROZHINSKIY, A.I.; KHROMOV, M.I.; SIVOCHUB, A.A.

Breaking a solid body with a high-pressure water jet. Zap. LGI
(MIRA 16:5)
41 no.1:44-51 '59.
(Jets--Fluid dynamics)

KASICH-PILIPENKO, N. Ye.; OBUKHOVSKAYA, B.M.

Improving the qualifications of welders. Avtom. svar. 14 no.4:94-
95 Ap '61. (MIRA 14:4)
(Welding—Study and teaching)

OBUKHOVSKAYA, B.M.

Courses for the raising of qualifications. Avtom. svar. 16
no.1:95 Ja '63. (MIRA 16:2)
(Electric welding—Study and teaching)

OBUKHOVSKAYA, I. M., Candidate Med Sci (diss) -- "Disorders of hemodynamics in patients with myocardial infarct". Ryazan', 1959. 16 pp (Ryazan' Med Inst im Acad I. P. Pavlov, Chair of Hospital Therapy), 200 copies (KL, No 23, 1959, 172)

MAZINA, Ye.G., kand.med.nauk; BERESTENNIKOVA, Ye.V.; OBUKHOVSKAYA, L.T.;
POPOVA, R.V.

Child's body reaction to repeated injection of increased doses of
BCG vaccine by enteral method. Vop. epid. i klin. tub. 5:37-45
'58. (MIRA 14:12)
(BCG---PHYSIOLOGICAL EFFECT)

TERSKIKH, I.I.; CHERVONSKIY, V.I.; KAREVA, M.P.; DORMIDONTOV, R.V.;
GROMYKO, A.I.; OBUKHOVSKAYA, N.M.; KOZLYAKOVA, A.I.; TAZULAKHOVA,
E.B.; Prinimali uchastiye: KUZNETSOVA, T.M., vrach; LOPAROVA, L.M.,
vrach

Natural and secondary focus of ornithosis in the Zavidovo District
of Kalinin Province. Vop.virus 7 no.4:93-99 Jl-Ag '62.
(MIRA 15:8)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva
(for Terskikh, Chervonskiy, Kareva, Dormidontov, Gromyko, Obukov-
skaya, Kozlyakova). 2. Kalininskaya oblastnaya sanitarno-epidemiolo-
gicheskaya stantsiya (for Kuznetsova, Loparova).
(ZAVIDOVO DISTRICT (KALININ PROVINCE--ORNITHOSIS))

ЧЕРКОВСКАЯ, Ю.Н.

НЕВСКИЙ, А. (Черкасск); ДЕНИСОВА, Т.Н. (Москва); ОБУХОВСКАЯ, Ю.Н.

Teachers about a new collection of arithmetical problems.
Mat. v shkole no.2:76-79 Mr-Ap '55. (MLRA 8:6)
(Arithmetic--Problems, exercises, etc.) (Ponomarev, S.A.)
(Syrnev, N.I.)

ERDNIYEV, Pyurvya Muchkayevich; VILEMKIN, N.Ya., prof., retsenzent;
NAZAREVSKIY, G.A., uchitel', retsenzent; ROMAKIN, M.I., uchitel',
retsenzent; OBUKHOVSKAYA, Ye.M., uchitel', retsenzent; MOLCHANOV,
M.P., red.; KREYS, I.G., tekhn.red.

[Comparison and generalization in the teaching of mathematics;
manual for teachers] Srovennie i obobshchenie pri obuchenii
matematike; posobie dlja uchitelsi. Moskva, Gos.uchebno-pedagog.
izd-vo, 1960. 149 p.
(Mathematics--Study and teaching)

SHEYKHET, A.M.; PYZHOV, Yu.V.; OBUKHOVSKIY, A.Ya.

Studying the coking properties of coal mixtures by means of the
IGI (Institute of Mineral Fuels)- DMatI(Dnepropetrovsk Metallurgy
Institute) method. Koks i khim. no.3:4-9 '64. (MIRA 17:4)

1. Dnepropetrovskiy metallurgicheskiy institut.

OBUKHOVSKIY, B.; KIRICHENKO, L.

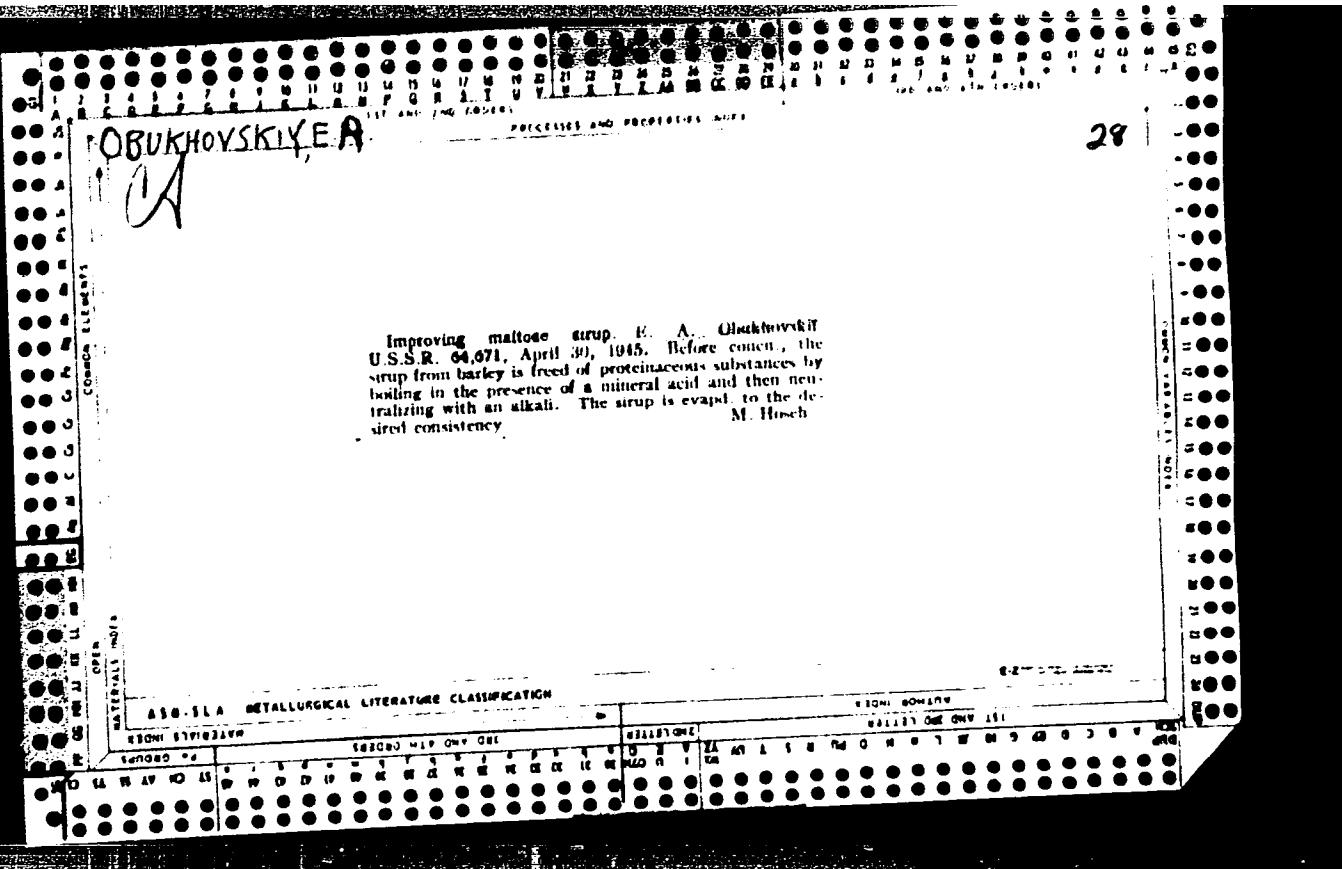
At the Vologda Milling Combine. Muk.-elev. prom. 29 no.7:
7-9 Jl '63. (MIRA 17:1)

1. Glavnyy inzh. Vologodskogo mel'nichnogo kombinata (for
Obukhovskiy). 2. Zamestitel' glavnogo inzh. Vologodskogo
mel'nichnogo kombinata (for Kirichenko).

OBUKHOVSKIY, B.; DRUZHININ, N.

In the mixed feed plant of the Vologda Milling Combine. Muk.-
elev. prom. 29 no.9:22-24 S '63. (MIRA 17:1)

1. Glavnnyy inzh. Vologodskogo mel'nichnogo kombinata (for
Obukhovskiy). 2. Nachal'nik kombikormovogo tsekha Vologodskogo
mel'nichnogo kombinata (for Druzhinin).



OBUKHOVSKIY, Emil' Aleksandrovich; VEKSLER, B.A., kand.tekhn.nauk,
retsenzent; BURMAN, M.Ye., inzh., spetsred.; KRUGLOVA, G.I.,
red.; TARASOVA, N.M., tekhn.red.

[Production of maltose sirups] Proizvodstvo mal'toznoi patoki.
Moskva, Pishchepromizdat, 1959. 153 p.
(Maltose) (Sirups)

OBUKHOVSKIY, B.A.; MALYZHEV, A.A.

Production of crystalline glucose from corn flour. Sakh.prom.
34 no.11:67-71 N '60. (MIRA 13:11)
(Glucose) (Corn products)

OBUKHOVSKIY, P.

Odessa varieties. Nauka i zhizn' 28 no.4:18-23 Ap '61.
(MIRA 14:5)
(Corn(Maize)) (Odessa—Agricultural experiment stations)

OBUKHOVSKIY, P. (Odessa)

Collective farm plant breeder. Nauka i zhizn' 28 no.11:22..
(MIRA 14:12)

27 N '61. (Ukraine--Corn breeding)

OBUKHOVSKIY, P. M.

Obukhovskiy, P. M. "The treatment of otogenic sinusitis, based on data of the Leningrad Scientific-Research Institute for Diseases of the Ears, Throat, Nose, and Vocal Organs, over the last 15 Years", Sbornik trudov Leningr. nauch.-issled. in-ta po boleznyam ukha, nosa, gola i rechi, Vl. 1X, 1948, p. 117-16.

SC: U - 3042, 11 March 53, (Letopis "Zhurnal "nykt. Stat'jy, No. 7, 1948.)

OBUKHOVSKIY, P.M.

Otogenous meningitis and evaluation of its therapy according to data
from Leningrad Laringological Institute. Vest. otorinolaryngol. No.3:37-40
(GLML 19:4)
May-June 50.

1. Of the Third Clinical Division (Head -- Prof. V.F.Undrits, Cor-
responding Member of the Academy of Medical Sciences USSR), Lenin-
grad Scientific-Research Institute for Diseases of the Ear, Nose,
Throat, and Speech (Director -- Prof. I.A.Lopotko; Scientific
Director -- Prof. V.I.Voyachek, Active Member of the Academy of
Medical Sciences).

OBUKHOVSKIY, V.M., kand.ekon.nauk

Ways of increasing labor productivity and reducing production costs on collective farms located near cities and in lowland regions of Moscow Province. Izv.TSKhA no.2:193-208 '59.
(MIRA 12:8)

(Collective farms--Labor productivity)

VEKSLER, Yu.F., kand.ekonomicheskikh nauk; OBUKHOVSKIY, V.M., kand. ekonomicheskikh nauk; Prinimali uchastiye: KUTUZOVA, N., KHOMAYUN, Kh.

Size of state vegetable-potato farms in Moscow Province.
(MIRA 15:9)
Izv. TSKHA no.3:185-197 '62.

1. Sotrudniki Laboratorii ekonomicheskikh issledovaniy
Timiryazevskoy sel'skokhozyaystvennoy akademii (for Kutuzova,
Khomayun).

(Moscow Province—State farms)
(Moscow Province—Vegetable gardening)

KOLESNEV, S.G., akademik; OBUKHOVSKIY, V.M., kand. ekonom. nauk

Some methodological problems in computing the cost of production on
collective farms. Izv. TSKHA no.3.:209-219 '63. (MIRA 16:9)
(Collective farms—Accounting)

OBUKHOVSKIY, V.M., starshiy nauchnyy sotrudnik, kand. ekonomicheskikh nauk

Criteria and indices of the efficient sizes of collective and state farms. Izv. TSKHA no.1:207-215 '64.
(MIRA 17:4)

1. Laboratoriya ekonomicheskikh issledovaniy Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva.

OEKHOVSKIY, V.M., dotsent, kand. ekonom. nauk

Sizes and structure of capital assets on state farms as exemplified by state farms in Moscow Province. Izv. TSKHA no. 63
12-27 '64
(MIRA 18:1)

1. Kafedra organizatsii sotsialisticheskikh sel'skikh khozyaystvennykh predpriyatiy Moskovskoy ordena Lenina sel'skikh khozyaystvennykh akademii imeni K.A. Timiryazeva.

OAVKHOVSKY, V.M., dotsent, kand. ekonom. nauk

Dynamics of fixed assets on specialized state farms with
various levels of production intensity. Izv. MGU ser.2,
28-39 '65. (MGU (RPN))

1. Katedra organizatsii sotsialisticheskikh i ekonomicheskikh
predpriyatiy Moskovskoy gos'stroizayatelnosti imeni
Timiryazeva.

85046

S/126/60/010/004/018/023
E111/E452

18.8200 2608.1500.1146 only

AUTHORS: Rakhman, B.M., Madorskii, A.Ya. and Obukhovskii, V.V.
TITLE: Some Peculiarities in the Creep of Type EI696 Steel
PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol.10, No.4,
pp.617-621

TEXT: Type ЭИ696 (EI 696) steel has the following composition, %:
C - up to 0.1; Si and Mn - up to 1; S - up to 0.02;
P - up to 0.03; Al - up to 0.8; Cr - up to 10 to 12.5;
Ni - 18 to 21; Ti - 2.6 to 3.2; B - 0.008 to 0.02. It is
used for parts working at up to 600 to 700°C but its creep and its
relaxation at 450 to 750°C have not been sufficiently studied.
The authors report their creep tests on this steel, using the method
described by Rakhman (Ref.3) and temperatures of 400, 500, 600, 650,
700 and 750°C. Creep curves for 500, 650, 700 and 750°C are shown
in Figs.1 to 4 respectively. It was found that at 500, 600 and 650°C
the specimen length either stays constant or even decreases,
contrary to normal creep behaviour. The authors attribute this
anomalous behaviour to continuation of solid-solution decomposition
during testing and sought to follow this effect by measuring
electrical resistivity of creep-tested specimens with a type

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85046
S/126/60/010/004/018/023
E111/E452

Some Peculiarities in the Creep of Type EI696 Steel

YTB-3 (UTV-3) bridge. Fig.5 shows resistivity as a function of creep test temperature for various test stresses: there is a minimum at 650°C. Using the X-ray back-reflection method with copper radiation, the lattice parameters for the solid solution in creep tested specimens was determined. Fig.6 shows this as a function of temperature for various test stresses. The results confirm those of resistivity measurements, indicating that the general tendency is for rapid solid-solution decomposition to occur during holding of type EI696 steel under load. The work shows that the steel can undergo brittle fracture under conditions of constant overall (plastic and elastic) deformation because of its shrinkage at 500 to 600°C; at 500 to 650°C fracture occurs without appreciable plastic deformation. The authors recommend revision of heat-treatment conditions to eliminate negative creep and failure without deformation. There are 6 figures and 3 references:
2 Soviet and 1 English.

SUBMITTED: November 17, 1959 (initially)
March 10, 1960 (after revision)

Card 2/2

L 22622-66 EWT(1) LJP(c) GO
ACC NR: AP6004931

SOURCE CODE: UR/0056/66/050/001/0135/0139

AUTHORS: Obukhovskiy, V. V.; Strizhevskiy, V. L.

ORG: Kiev State University (Kiyevskiy gosudarstvennyy universitet)

TITLE: Relation between the nonlinear dielectric constant and the Green's functions
for electromagnetic radiation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 135-
139

TOPIC TAGS: dielectric constant, Green function, electromagnetic radiation, tensor,
nonlinear effect, electromagnetic wave dispersion, quantum field theory.

ABSTRACT: The relation between the Green's functions for electromagnetic radiation
in a medium and its dielectric constant are derived for the case of an anisotropic
medium whose interaction with the electromagnetic radiation is weakly nonlinear. The
analysis is confined to effects whose nonlinearity in terms of the field is of second
order. The medium is assumed to be homogeneous and nonmagnetic. The formula ex-
presses the dielectric constant tensor in terms of triple-time retarded Green's func-
tions, and is derived on the basis of an application of the method of external cur-
rents and perturbation theory for the density matrix of the system. While spatial
dispersion of the dielectric constant is disregarded, generalization of the theory to
include dispersion is not difficult. The results make it possible to employ methods

Card 1/2

51

B

2

L 22622-66

ACC NR: AP6004931

of quantum field theory to study the propagation of electromagnetic waves in media possessing nonlinear properties. Orig. art. has: 24 formulas.

SUB CODE: 20/ SUBM DATE: 30Jun65/ ORIG REF: 003/ OTH REF: 002/

Card 2/2 *kw*

OBUKHOVSKIY, Ya. A

KONEV, F.A.; OBUKHOVSKIY, Ya.A.

Productivity of semi-automatic ampule machines. Med.prom. 12
no.4:27-32 Ap '58. (MIRA 11:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut.
(DRUG INDUSTRY--EQUIPMENT AND SUPPLIES)

KONEV, F.A.; OBUKHOVSKIY, Ya.A.

Obtaining deoxygenated distilled water. Med.prom. 13 no.11:28-31
N '59. (MIRA 13:3)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut.
(WATER, DISTILLED)

KONEV, F.A.; OBUKHOVSKIY, Ya.A.

Determination of gas composition and pressure in ampules with
a solution. Med.prom. 14 no.6:38-41 Je '60. (MIRA 13:6)

I. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut.
(SOLUTIONS (PHARMACY))

BIDNAYA, D.S.; OBUKHOVSKIY, Ya.A.; SYSOYEV, L.A.

Developing new methods for CdS crystal growing from solutions.
Zhur.neorg.khim. 7 no.12:2671-2673 D '62. (MIRA 16:2)
(Cadmium sulfide crystals)

ACCESSION NR: AT4040563

S/2564/64/004/000/0157/0159

AUTHOR: Sy*soyev, L. A.; Obukhovskiy, Ya. A.; Bidnaya, D. S.

TITLE: Crystallization of cadmium sulfide from solutions of cadmium halides

SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 4, 1964, 157-159

TOPIC TAGS: cadmium sulfide, cadmium halide, cadmium sulfide crystallization, cadmium halide eutectic

ABSTRACT: The observation that molten CdCl₂ dissolves ~30 wt. % of CdS at 800°C was used by the authors as the basis for a study of the conditions for obtaining large and well-shaped crystals of CdS. Crystals 1.5 mm thick and 4 mm in diameter, with well-developed faces, were obtained from a CdCl₂-CdI₂ eutectic mixture (30% CdCl₂ - 70% CdI₂) which melts at 359°C. The process was carried out in a resistance oven with programmed temperature reduction. A mixture of 8 wt. % CdS and 92 wt. % of the eutectic was heated at 670-680°C for 3-4 hrs in a quartz ampule and cooled at rates of 50, 20 or 5 degrees/hr. A slower rate contributed to increased size and regular shape of the crystals. Orig. art. has: 3 figures.

Card 1/2

ACCESSION NR: AT4040563

ASSOCIATION: Institut kristallografi AN SSSR (Institute of Crystallography, AN SSSR)

SUBMITTED: 00

DATE ACQ: 02Jul64

ENCL: 00

SUB CODE: SS,IC

NO REF SOV: 001

OTHER: 000

Card
2/2

A

E 11879-66 EMT(1)/EMT(e)/EMT(m)/T/EMT(f)/EMT(b) IJP(c) JD/GG/NH

ACC NR: AT8002242

SOURCE CODE: UR/2564/65/006/000/0116/0121

44 55 44 55 44 55 44 55

AUTHOR: Izvekov, V. N.; Sysoyev, L. A.; Obukhovskiy, Ya. A.; Birman, B. I.

51

Oct/

ORG: none

TITLE: Preparation of single crystals of refractory compounds from binary or multicomponent systems and effect of temperature conditions of growth on their form and faceting

44 55
SOURCE: AN SSSR, Institut kristallografi, Rost kristallov, v. 6, 1965, 116-121

TOPIC TAGS: single crystal growing, cadmium sulfide, aluminum oxide, tungstate, titanate, calcium compound, strontium compound, ruby, corundum

21 44,55
ABSTRACT: The authors studied the growth of cadmium sulfide single crystals from melts of cadmium chloride and iodide and their mixtures, and the growth of single crystals of α -corundum(ruby), rutile, strontium titanate and calcium tungstate from fluorides. CdS single crystals with a wurtzite lattice were obtained in the 600 - 380C range from the CdS-CdCl₂-CdI₂ system. The other (oxide) crystals were grown in platinum crucibles in the 1200 - 700C range with slow cooling. An important feature revealed by these experiments is the dependence of the crystal habit of the crystals obtained on the temperature range of the crystallization. This phenomenon is explained by differences in the growth rates of faces having different crystallographical indices, particularly surface roughness. The concept of the influence of

Card 1/2

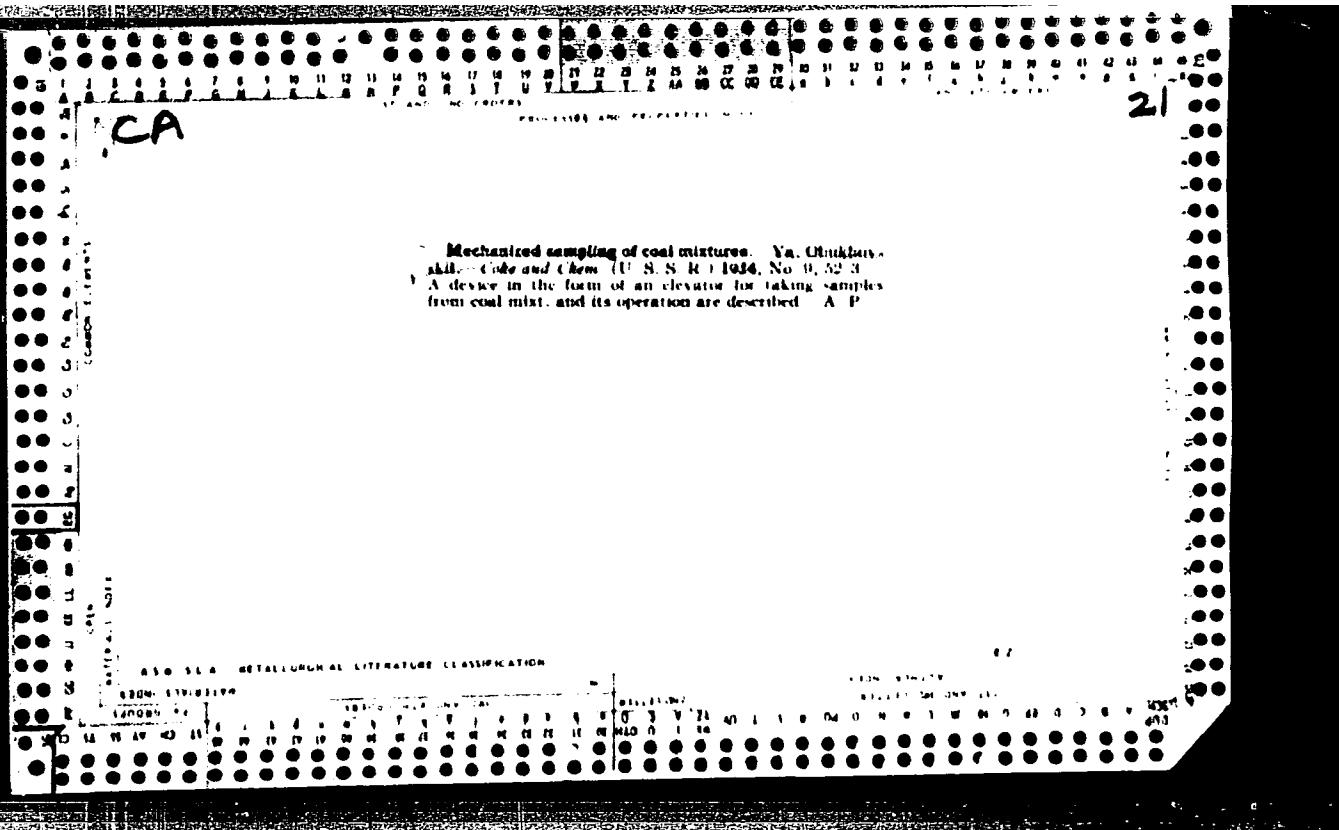
L 11879-66

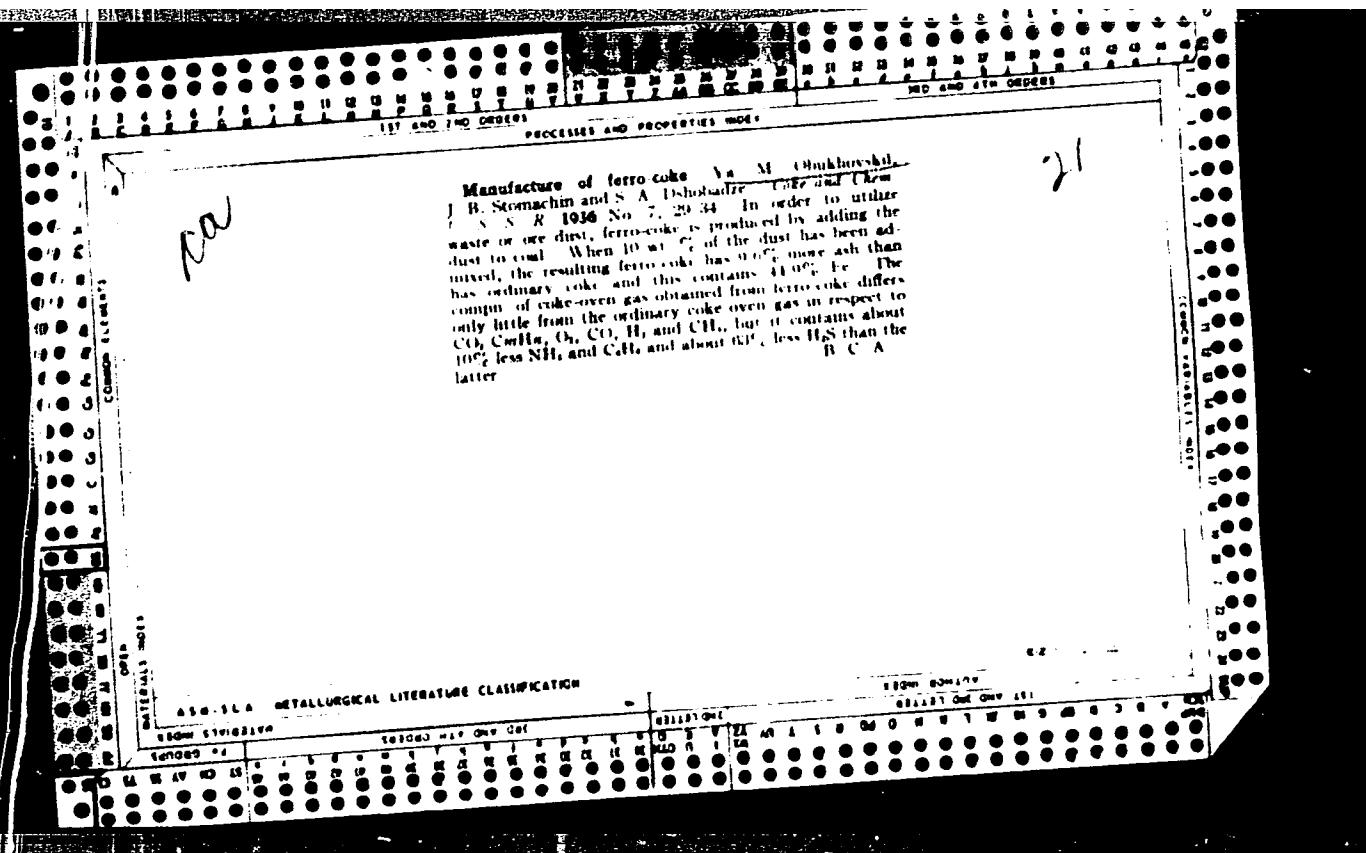
ACC NR: AT6002242

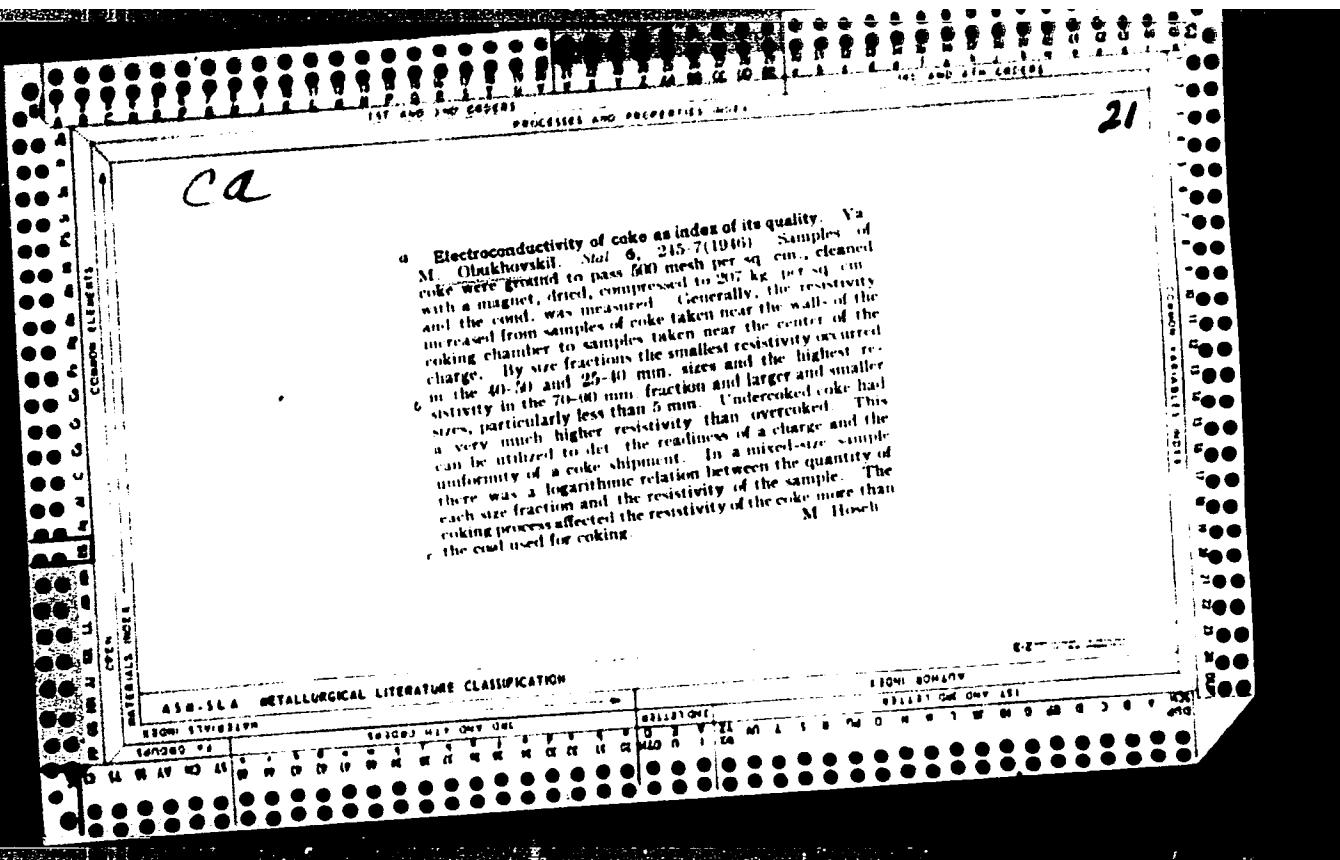
surface roughness on the growth forms of crystals is extended to binary and multicomponent systems. Orig. art. has: 6 figures and 1 table.

SUB CODE: 3D, 11 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 005

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Card 2/2







PA 18T3^a

OBUKHOVSKIY, Ya. M.

USSR/Coke
Fuels, Solid

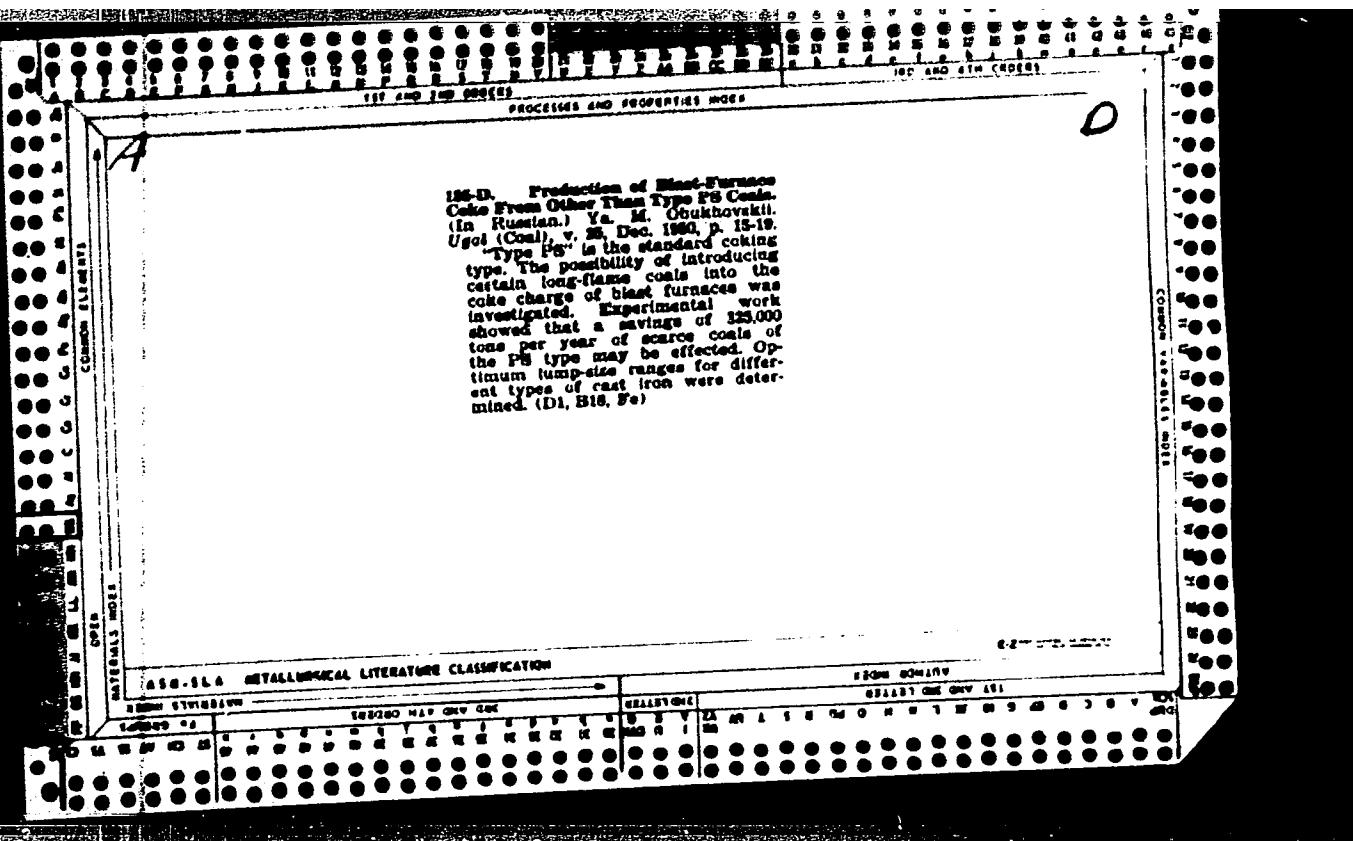
May 1947

"Rapid Determination of the Reasons for Lowering of Uniformity in Coke," Ya. M. Obukhovskiy (YuzhGlavKoks), 2 pp

"Stal'" Vol VII, No 5

Observation of amount of ashes in coke products (coke dust, small coke, etc.) makes possible rapid establishment of reasons for lowering of uniformity of coke. Fluctuations of uniformity show the degree of refinement of the coke.

18T38



OBUKHOVSKIY, YA.

Coal - Donets Basin

Expansion of coal resources of coking coal of the Donbas, Issled. zhurn., No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress , July 1952. Unclassified.

BTR
*Ore & Material
Beneficiation*

9907. The Enrichment of Coal as a Factor Contributing
to a Wider Base for the Coking Industry. (Russian.) Ia. M.
Obukhovskii. Ugesl. v. 27, June 1952, p. 31-32.
Discusses the increased activity in this field, particularly in
the removal of sulfur for metallurgical coke. Data are tabu-
lated.

OBUKHOVSKIY, Ya. M.

✓ 1005. PRODUCTION OF BLAST FURNACE COKE OF UNIFORM QUALITY
Obukhovskii, Ya. M. (Stal (Steel, Moscow), 1954, (6), 394-401; abstr. in
Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (2), 4693). Cokes from southern
districts of the U.S.S.R. were examined taking the following tolerances:
drum sample 14 kg, ash 40.3% and sulphur 40.5%. The uniformity of cokes in the
drum test was high when the producing Works had no coal preparation plant and
low when they had one. Uniformity in ash and sulphur was low for the majority
of works. The causes of variations in Donbass cokes are variations between the
many seams mined and within the seams, and the fact that regulations for
averaging the properties of coals at the pithead are not carried out. It is
suggested that this averaging should be arranged both by the supplier and the
purchaser, and methods of doing so are described.

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CIA-RDP86-00513R001237720017-1

KOTKIN, A. M. and OBUKHOVSKIY, Ya. M.

"Coals for Coking and Check of Their Quality," Metallurgizdat, 1954.

Translation W-31440, 6 Sep 55

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001237720017-1"

OBUKHOVSKIY, Ya. M.

Coal

Enriching coals as a factor in expanding the raw material basis for coking. Ugol'
no. 6(315) (1952)

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Uncl.